



USER MANUAL

V. BRØNDUM A/S
Item No.: A0800050



RONDA 3600

Mobile Suction

IMPORTANT!

Read this manual before you operate the machine.

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RONDA 3600

Mobile suction of large quantities of dust

The RONDA 3600 Mobile Suction is ideal for suction of large quantities of fine or heavy dust in applications requiring large, continuous suction power and a safe collection of the dust.



- Large suction power: suction hose of up to 30 metres
- Cyclone separator with open cyclone filter
- 70 l recovery capacity directly in plastic sack
- BIA C and BIA K1 filtering (99.997 at 0.3 µm) for silica and asbestos dust
- Derivation of static electricity
- Lasting suction power
- Self-cleaning, teflon-coated multi-tube filter
- In-process filter cleaning
- Protected by strong framework
- Heavy-duty wheels
- Crane-lift device
- Hour meter
- Thermal cutout for motor protection
- Vacuum protection for blocked suction hose

Technical data

Suction motor, by-pass	3*1200	W
Suction motor, power	230	V
Power supply	380	V + N+E
Suction power	2400	mmWs
Air supply at 10 m hose	520	m ³ /h
Noise level	77	dB
Filter area, multi-tube filter	3	m ²
Filter area, HEPA filter	4.4	m ²
Height	1630	mm
Length	1090	mm
Width	720	mm
Weight	118	kg
Recovery capacity:		
Cyclone separator (plastic sack)	70	l
Suction unit (plastic bag)	24	l

Accessories

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50 mm artisanal set with 5 m antistatic hose and 50 cm all-purpose floor nozzle	80.33.5020
76 mm industrial set with 5 m Ø76 mm hose and pipe for floor cleaning	80.33.7600
Plastic bag	84.64.9990
Plastic sack	84.64.9983

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Machine design

The RONDA 3600 is provided with a large cyclone separator with open cyclone filter (1), from which all collected large particles and about 95% of all dust particles will fall into the plastic sack of the collection container.

The remaining fine dust is led to the suction unit (2), where a large, teflon-coated multi-tube filter will clean the air and retain 99.95% of all particles above 0.3 μm . The multi-tube filter has a filter surface of 3 m² and is mounted on springs, which gives it a self-cleaning effect. The dust separated by the multi-tube filter is collected directly into a plastic bag at the bottom of the suction unit. The finest dust is separated from the exhaust air in a HEPA filter with a filter surface of 4.4 m², which will retain 99.997% of all particles of more than 0.3 μm .



Assembly

Unwrap the RONDA 3600 and check that all parts are there. Connect the suction hose to the unit's suction nozzle, and connect accessories as required.

Before starting up

- Check that plug and cord are free of damage before plugging into the socket. If plug or cord are damaged, these must be exchanged immediately by a qualified person.
- Check that the power supply corresponds with the voltage given on the appliance's type label.
- The plug must be removed from the power point before any work is carried out on the appliance. This also applies to cleaning.
- Before commencing vacuum cleaning, check that the appliance is fitted with the right filters for the task.
- If any doubt should arise as to the use, safety or construction of the appliance, please contact the dealer of V. BRØNDUM A/S.

Starting up

When the machine has been correctly assembled and connected, the appliance can be started via the switches on the motor top. The three powerful suction motors have separate switches. The air volume can be adjusted to the suction task by switching on one, two or three suction motors.

During operation, the vacuum cleaner can be moved on the large wheels. The front turning wheels make the manoeuvring of the machine very easy. RONDA 3600 is designed for vacuuming of dry materials only.

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Safety provisions

- The unit is not approved for flammable, explosive, poisonous or other dust, fluids or gasses injurious to health.
- The user must ensure that the appliance is adjusted for the task and that statutory requirements are met.
- Avoid damaging the electrical cord. If the cord needs replacement, it must not be exchanged for a thinner cord than the original one. A qualified person must exchange the cord.
- Guidelines in Connection with Disposal of the Machine



The product you have purchased is subject to Directive 2002/96/EC of the European Parliament and the Council of the European Union on waste electrical and electronic equipment (WEEE) and should not be disposed of as unsorted municipal waste. Please utilize your local WEEE collection facilities in the disposition of this product and otherwise observe all applicable national requirements.

Emptying

Emptying of the cyclone pre-separator:

1. The machine is stopped.
2. The cyclone container is lifted by placing the lever in its lower position.
3. The collection container is tipped and the plastic sack can be pulled out of the container.

Emptying of the suction unit:

4. The two security clips, which retain the container, are loosened.
5. The collection container is pulled out and the plastic bag is removed.



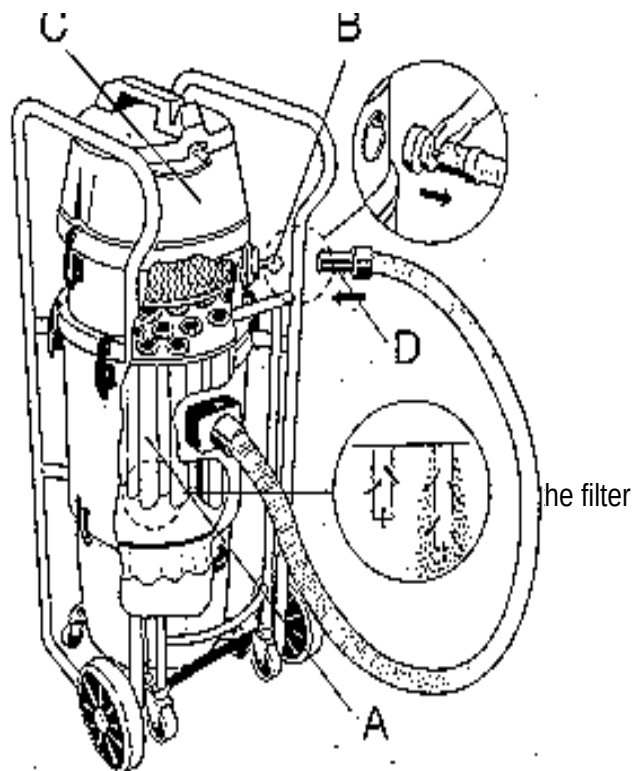
The plastic sack and bag are protected by the collection containers to make sure that they are not damaged during operation and transport. The plastic sack and bag are made in an especially strong and heavy quality.

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Cleaning of the main filter

See the draft, which shows the principles for cleaning the main filter.

1. The main filter (A) is cleaned, while the machine is in operation, by means of the pressure compensation valve (B) beside the manometer on the suction unit.
2. The hose coupling (D) is connected to the ball on the pressure compensation valve (B). The machine now makes a vacuum in the hose and in the collection container.
3. While the hose coupling (D) remains on the ball, the pressure compensation valve (B) is pulled out. The springs in the multi-tube filter now expand the filter surface with a jerk.
At the same time, the compensation air is pressed through the filter and equalizes the negative pressure in the
4. Repeat the cleaning process 2-3 times. The effect of the filter cleaning can be read on the manometer. We advise always leaving the machine to rest for a couple of minutes before emptying.
The dust will settle in the container and the emptying can be done without stirring up any dust.



Vacuuming liquids

RONDA 3600 must not be used for vacuuming liquids.

Hour meter

RONDA 3600 is equipped with an hour meter. The hour meter is placed on the motor top together with the other control buttons.

The hour meter is electronic and registers the machine's total number of working hours. The working hours will be indicated on the display.

Vacuum protection for blocked suction hose

The RONDA 3600 is equipped with an automatic vacuum protection. The vacuum, which the machine builds up during operation is electronically supervised by a vacuum control system.

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If the suction hose is blocked, the vacuum supervision registers the constant maximum vacuum, and an alarm indicator on the motor top will flash.

If the hose blocking is not removed by itself, the vacuum protection will stop the machine. This spares the three strong suction motors of the suction unit and ensures that these are not damaged. After this, the blocked suction hose can be cleaned.

After automatic stop, the alarm indicator will continue to flash. In this way you can see what caused the stop of the machine.

When the vacuum protection has stopped the machine automatically, it can be started again. If the blocking has not been removed, the vacuum protection will stop the machine again.

Thermal cutout for motor protection

The three strong suction motors on the RONDA 3600 are provided with a thermal cutout. The thermal cutout registers heating of the suction motors in case of an abnormal working situation.

If the motor temperature is too high, an alarm indicator will flash. If the motor is not cooled, the machine will be stopped automatically. The thermal cutout ensures that the machine cannot be started again before the motor temperature is normal.

After automatic stop, the alarm indicator will continue to flash. In this way you can see what caused the machine to stop.

Crane-lift device

RONDA 3600 is built into a strong trolley frame. The trolley frame is prepared for crane lifting of the whole machine.

The strong centre cross bracing of the trolley frame is placed in the balance point of the machine (empty machine). The crane can be equipped with a suitable lifting device, which is attached to the centre cross bracing, and the machine can be lifted.

Crane lifting must be done according to the regulations in force as regards handling of heavy goods.

Derivation of static electricity

By vacuuming of dry materials and dust there is a risk of static electricity in for instance suction hoses and pipes.

RONDA 3600 is earthed through the earth connection of the cabling.

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RONDA 3600 is equipped with derivation built into the machine and should only be used together with antistatic suction hose.

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Cleaning and maintenance

The appliance must be disconnected from the mains during service and cleaning. The appliance must be cleaned after use, and must not be left with dust in the container. (Danger of selfignition).

Replacement of filter

General

When replacing the filter, the requisite precautions must be observed with respect to protection of the environment and protection of the operator's respiration. This protection must be carried out with due regard to the nature of the use to which the vacuum cleaner has been put and to whatever hazard is posed by the dust in question on the filter's surface.

Changing the HEPA filter

1. Remove the motor top of the suction unit and turn it so that the HEPA filters are facing upwards.
2. Loosen the bolt, which holds the HEPA filters. The filters can now be removed and disposed.
3. The new HEPA filters can now be mounted on the motor top. Please ensure that the filters' contact surfaces are undamaged and clean.
4. Tighten the bolt so that the filters are firmly connected to the contact surface in the motor top, but do not over-tighten it.

Disposal of HEPA filters

Care must be taken that environmental regulations are observed when the used HEPA filters are discarded.

Maintenance of engine top

The motor top is manufactured from maintenance-free parts, and consequently needs no daily maintenance except external cleaning.

In order to avoid unscheduled stops, we recommend an annual service of the electrical parts by a service technician.

It is recommended to check the carbon in the suction motors after 800 working hours – exchange if necessary. In this way, the life of the suction motors is prolonged.

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Troubleshooting

If suction is unsatisfactory:

- The suction hose, pipe or nozzle might be blocked.
Stop the machine and clean the parts.
- The containers might be too full.
Stop the machine and empty the containers.
- The filter might be blocked.
Clean the main filter and check the HEPA filters.
Exchange any blocked filters as necessary.

If the collection bag in the pre-separator is sucked into the pre-separator:

- The vacuum filter disk in the rubber cup behind the collection container is clogged.
Take out the filter disk and mount a new one in the rubber cup.
- The collection sack covers the vacuum filter disk.
Place the collection sack so that it does not cover the vacuum filter disk.
- The rubber cup is damaged so that it does not fit tight to the collection container.
Check the rubber cup and exchange if necessary.

If the collection bag of the suction unit is sucked around the multi-tube filter:

- The pressure compensation hose of the collection container has not been mounted correctly.
Check that the undamaged pressure compensation hose has been mounted correctly.
- The collection container does not fit correctly to the gasket of the filter housing.
Check for leakages between collection container and filter housing. Adjust the container clips, if necessary, so that the collection container fits correctly to the gasket of the filter housing.

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Service and repair

Service and repair are free within the warranty period (invoice must be shown) under the following conditions:

- The defect is due to faulty construction or material. (Normal wear, improper use or faulty maintenance do not apply).
- No repair has been attempted by parties other than V. BRØNDUM A/S or service centres approved for warranty repairs by V. BRØNDUM A/S.

Free service facilities include exchange of defective parts and related labour.

The appliance must be delivered to the factory through a dealer of the V. BRØNDUM A/S organization, or sent postage paid to:

V. BRØNDUM A/S
Sadolinsvej 14-16
DK-8600 Silkeborg

Phone: 8682 4366
Fax: 8680 3363
E-mail: v@broendum.com
www.broendum.com

Subject to changing without further notice.

V. BRØNDUM A/S

V. BRØNDUM A/S was established 1964 in Silkeborg, and with a large programme of special cleaning equipment the company today is one of Europe's leading suppliers of professional cleaning equipment. Well-organised stores provide security of supply for our customers and a rational operation on a daily basis. Service, repair and trouble-shooting are handled by a highly trained service team in our own workshop. Our research and development department ensures that our cleaners continue to live up to the needs and demands of our customers, and that the machines we supply maintain a consistently high quality and reliability.